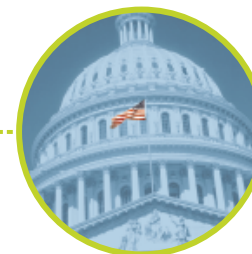


Cypress™

Cypress Tech Talk

December 18, 2018



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress Validation Utility + Calculation Check (CVU+)
 - Evolving Electronic Clinical Quality Measure (eCQM) Standards—
Episode of Care and Proportion Measures
- Cypress Versions
- Open Discussion
- Contact Information

Software Updates

CVU + Calculation Check

- **Cypress v5 will include a new feature named the Cypress Validation Utility + Calculation Check (CVU+)**
- **This feature seeks to address the vendor concern that the ‘certification process does not mirror a production scenario for electronic Clinical Quality Measure (eCQM) reporting’**
 - Certification uses a constrained set of test patients
 - Certification does not enforce reporting program requirements (i.e., CMS Implementation Guide)
- **CVU+ will supplement the existing certification program**
 - Use of CVU+ is not currently a requirement of the program

Software Updates

CVU + Calculation Check – Features

- **Enhanced verification of a Health Information Technology (IT) system's eCQM calculations**
 - Using a combination of Cypress defined patients, and “bring your own” patients
 - Calculation for multiple eCQMs at once
- **Verification of a Health IT system's ability to be configured (by a provider) to report to CMS programs**
 - CVU+ will test conformance with program specific requirements in the CMS Quality Reporting Document Architecture (QRDA) Implementation Guides

Software Updates

CVU + Calculation Check – Seeking Input

- **Cypress plans to begin development of the CVU+ this fall for preliminary release in Spring 2019**
 - Final release in Summer 2019 with Cypress v5
- **Seeking input for features to be included with CVU+**
- **Continued discussion at future Tech Talks**

Evolving eCQM Standards - Episode of Care and Proportion Measures(1 of 3)

- **Patient-based measures**

- Evaluate the care of a patient and assign the patient to membership in one or more measure segments or populations. Most Eligible Professional/Eligible Clinician eCQMs are patient-based

- **Episode-of-care measures**

- Evaluate the care during a patient-provider encounter and assign the episode of care to one or more measure population segments. All Eligible Hospital eCQMs and a few Eligible Professional/Eligible Clinician eCQMs are episode-of-care measures

Evolving eCQM Standards - Episode of Care and Proportion Measures (2 of 3)

- Previously, one needed to refer to the Electronic Clinical Quality Measure Logic and Implementation Guidance to determine whether a measure is a Patient-based or Episode-based.

Table 1. Eligible Professional and Eligible Clinician eQMs

eCQM ID#	NQF #	Title	Type	Patient / Episode
CMS2v8	0418	Preventive Care and Screening: Screening for Depression and Follow-Up Plan	Proportion	Patient
CMS22v7	Not Applicable	Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented	Proportion	Patient
CMS50v7	Not Applicable	Closing the Referral Loop: Receipt of Specialist Report	Proportion	Patient
CMS52v7	0405	HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis	Proportion	Patient
CMS56v7	Not Applicable	Functional Status Assessment for Total Hip Replacement	Proportion	Patient
CMS65v8	Not Applicable	Hypertension: Improvement in Blood Pressure	Proportion	Patient
CMS66v7	Not Applicable	Functional Status Assessment for Total Knee Replacement	Proportion	Patient
CMS68v8	0419	Documentation of Current Medications in the Medical Record	Proportion	Episode

Evolving eCQM Standards - Episode of Care and Proportion Measures (3 of 3)

- In CQL logic based measures, one can also infer whether a measure is a **Patient-based** or **Episode-based** from the eCQM specification
- **Patient-based measures**
 - Populations will always return a **true** or **false**

▲ Initial Population

exists "Face to Face Encounter During Measurement Period"
and "First Referral During Measurement Period" is not null

- **Episode-of-care measures**
 - Populations will always return an **array** of data elements that meet the population criteria

▲ Initial Population

```
/*Emergency Department visit during the measurement period*/  
["Encounter, Performed": "Emergency Department Visit"] EDVisit  
where EDVisit.relevantPeriod during "Measurement Period"
```


Software Updates

Bugs addressed in 4.0.1 patch release

Cypress v4.0.1

The Cypress 4.0.1 patch is scheduled for released on 10/11/18. Changelog for the release is below

Cypress Features

- Cypress bundle for the 2019 Reporting/Performance period (eCQM value sets as of September, 2018).
- Support for the 2018 CMS Quality Reporting Document Architecture (QRDA) Category III Implementation Guide.

Cypress Bugs Addressed

- Misrepresentation of ongoing events in HTML. ([CYPRESS-1450](#))
- Calculation of patient Z21 GP Adult for CMS249 does not account for race. ([CYPRESS-1461](#))
- Cypress's relative positioning of the "Negation Reason" in the Device, Order template impacts patient import. ([CYPRESS-1443](#))
- C4 Problem filter not properly excluding patients without required diagnosis. ([CYPRESS-1480](#))
- Duplicate Patients have significantly different date of births, impacting calculation depending on which date of birth is selected. ([CYPRESS-1483](#))
- Master Patient List download does not contain patient files.
- 'Race Condition' in C2 setup may cause the Expected Results to be calculated with a subset of patient records. ([CYPRESS-1488](#))

CYPRESS Issue Tracker / CYPRESS-1453

CMS 68v8 patient w/duplicate episodes counting individually

Details

Type: Bug/Issue Status: **IN PROGRESS**

Priority: **Moderate** Resolution: Unresolved

Labels: **KnownBug4.0.0**

Contact Name: Judi Dorsey

Contact Email: judid@medent.com

Search Save as

labels = KnownBug4.0.0 **Search** Basic

1-4 of 4

Key	Summary	T	Status	Created	Assignee
CYPRESS-1477	Device Order Element structure	o	CLOSED	09/24/18	David Czulada
CYPRESS-1461	Z21 GP Adult race code mismatch, possible miscalculation	o	IN PROGRESS	09/09/18	David Czulada
CYPRESS-1453	CMS 68v8 patient w/duplicate episodes counting individually	o	IN PROGRESS	08/23/18	David Czulada
CYPRESS-1443	Device, Order negation author/time is missing and seems to be causing an issue	o	IN PROGRESS	07/23/18	David Czulada

Cypress v4.0.0, I find a specific patient (Z9 N BH Adult) appears to have . But, upon closer inspection, two of the episodes have the same CPT codes. The only difference I see between the two is the inclusion of a but not the other. Since there is no diagnosis requirement for this as these are duplicated to one another and only counts 4 unique

Cypress Versions

Version	Dates	Measures Supported
V 3.2.3	December 14, 2017	Support for the eQMs for the 2018 Reporting/Performance Period *will be supported alongside Cypress v4
V4.0.1	October 11, 2018	Support for the eQMs for the 2019 Reporting/Performance Period Support for Clinical Quality Language (CQL) calculation

Bundle Version	Dates	Features
2017.0.3	April 24, 2018	Cypress v3 only “Z1 BH Adult” updated for CMS128v6
2017.0.4	September 25, 2018	Cypress v3 only Errata update to fix ‘Download All Patients’ feature when 2017.0.3 and 2017.0.2 are installed simultaneously
2018.0.1	July 26, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 5/4/2018.
2018.1.0	October 11, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, January 15, 2019 at 1pm ET
- To join online, visit:
<https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bc4ad148cf1e39d5c7408>
- To join via phone, dial: 1-877-267-1577
- Meeting Number: 998 084 717
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Notes

- **Completed Webinars will be posted on the Cypress Website on the Timeline Tab**
 - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
 - project-cypress-talk@googlegroups.com
- **Report bugs and issues to the Cypress JIRA at**
 - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>